



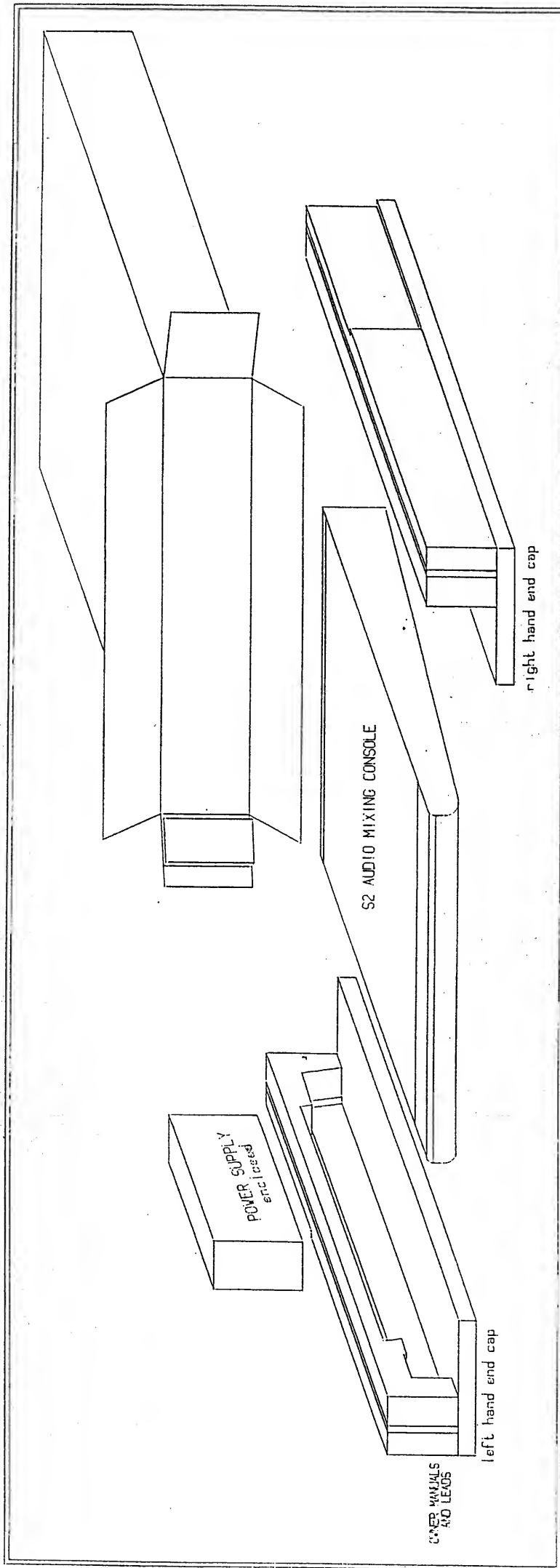
**TCA**

# S2

AUDIO MIXING CONSOLE

TECHNICAL MANUAL

## S2 MIXING CONSOLE - PACKING



The above diagram shows the packing method for the S2

Should the mixer be repacked for shipment please ensure that it is packed as shown. Remember to enclose the mixer in the heavy duty polythene bag before fitting the polystyrene end caps. The power supply unit should be placed in the cardboard sleeve provided.

Please include this packing diagram in the polythene bag for future reference.

## S2 MIXING CONSOLE - TECHNICAL MANUAL

This is the TECHNICAL MANUAL for the Thatched Cottage Audio S2 168 mixing console.

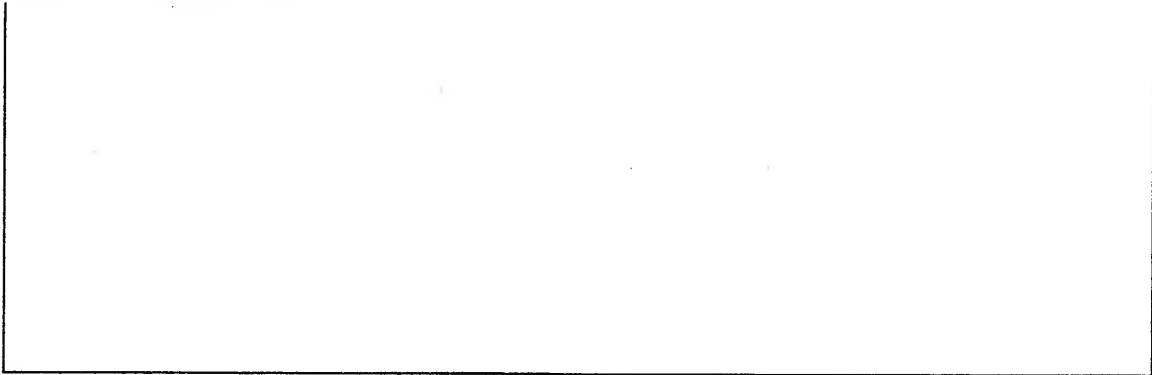
Included is the full set of drawings and information required to provide technical service back-up for this product.

For user information please refer to the S2 OWNER MANUAL supplied by Thatched Cottage Audio.

For information on the S2 EX8 expander unit please refer to the S2 EX8 TECHNICAL MANUAL (publication AP0121).

The S2 is designed and manufactured by ALLEN & HEATH in England for Thatched Cottage Audio.

### SERVICE SUPPORT



Allen & Heath Publication AP0120 issue 1 Sept.1991 CD

L-R FAER - A1045  
- A1045

The S2 is an ultra compact professional recording mixer designed specifically to operate with the latest generation of multitrack tape machines and studio equipment.

Unheard of in its price range, the S2 includes full on board MIDI mute automation based on the most advanced and user-friendly V4 system. This provides automation of all channel, monitor and effects return mutes giving a creative freedom unique in mixers of this class.

The in-line format and versatile routing facilities allow up to 24-track recording and mixdown to two 2-track mastering machines without the need for re-patching.

The 16 channel S2 is easily expandable to a full 24 channels by adding on the EX8 extender unit.

Four dedicated stereo effects returns and the two signal paths per channel provide a maximum of 40 or 56 inputs with EQ available for mixdown.

The compact size and comprehensive facilities together with its superior audio performance, rugged yet stylish engineering, and low cost make the S2 the ideal choice for the small studio, mobile, or home recording situation.

## **KEY FEATURES:**

Full V4 MIDI automation of channel, monitor and effects return mutes, using silent FET switching,

16-8-2 or 24-8-2 in-line formats,

8 groups, normalled to channel outputs 1-8, 9-16, 17-24,

Up to 56 inputs with EQ available for mixdown,

In-line monitoring,

Channel direct-to-tape switches allowing up to 24 tracks to be recorded simultaneously,

Separate EQ for channel and monitor paths, with EQ on switch,

6 aux busses providing effects and cue sends,

Dedicated stereo cue monitor output,

4 stereo effects returns with EQ, cue sends, and routing to all outputs,

Monitoring and record source switching for two 2-track mastering machines,

Dedicated stereo control room monitor output with switching for 2 pairs of loudspeakers,

LED bargraph metering, and separate channel peak LEDs,

Inserts on channels, groups and stereo mix,

Comprehensive monitor and talkback facilities,

2 frequency line-up oscillator,

Superior audio performance,

100mm faders and quality components used throughout,

Engineered for reliability.

16 channel version may be expanded to 24 channels.

### CONSTRUCTION:

Single steel front panel and base plate with mediate side trims.

Large extruded aluminium armrest and rear plate.

Individual circuit assemblies connected by removable IDC harnesses for easy service access.

Separate MPS9 external power supply unit.

EX8 expander attaches on right hand side of 168 console to form a single piece 24 channel unit.

### SPECIFICATION:

OPERATING LEVELS: Multitrack in/out -10dBV  
2-track in/out -10dBV  
Aux, cue out etc. 0dBu  
Inserts 0dBu

FREQUENCY RESPONSE: 20Hz to 20kHz +0dB, -1dB

NOISE: Microphone EIN -127 dBu source = 150 ohm  
LR Mix noise -78 dBu ref 0VU  
Group mix noise -80 dBu ref 0VU

CROSSTALK: better than -80dB at 1kHz

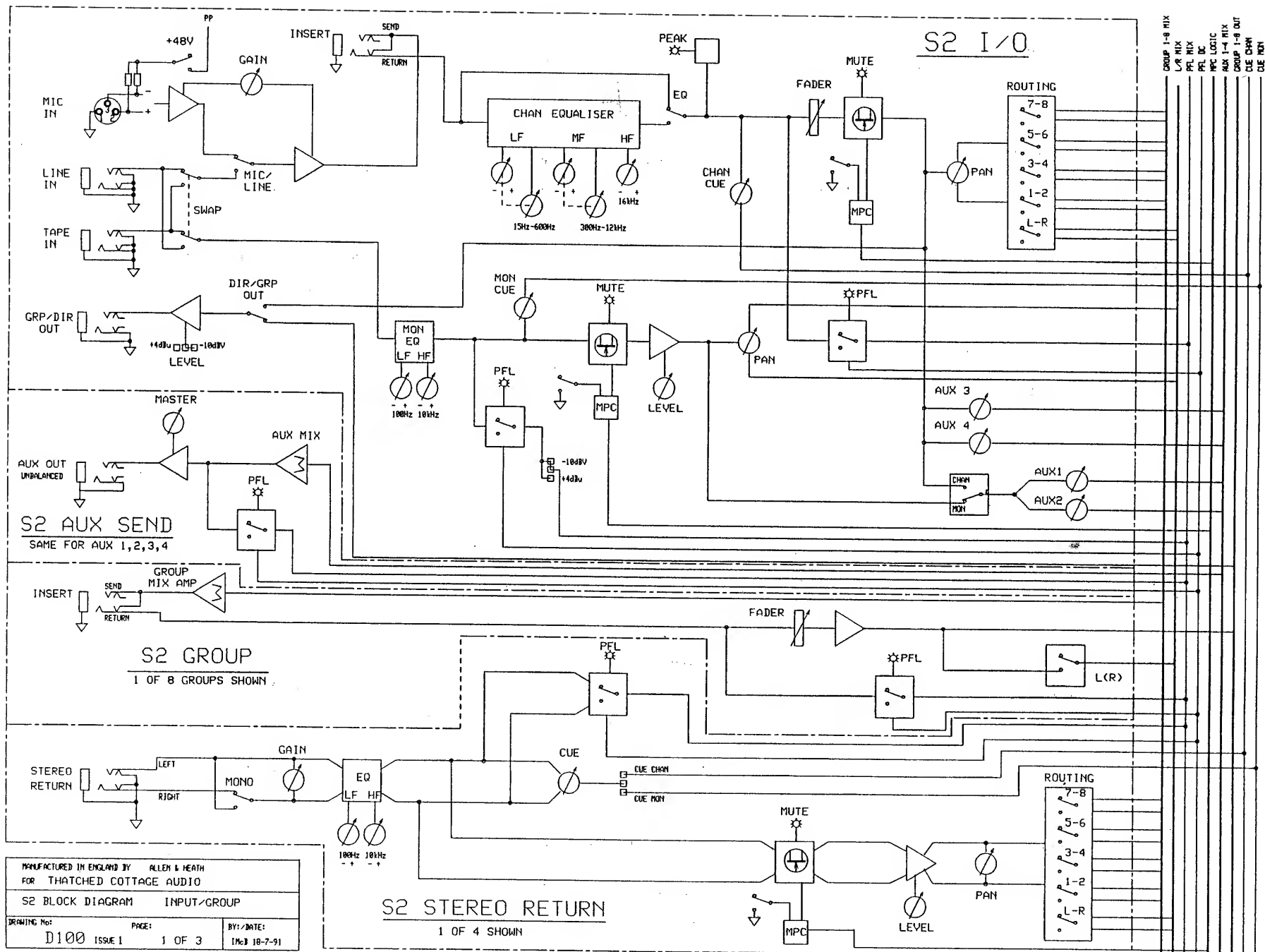
DISTORTION: THD typically less than 0.01% at 1kHz  
less than 0.02% at 10kHz

GAIN: Mic input variable from +10dB to +68dB  
Line input variable from -10dB to +20dB  
further +10dB available at each fader

MAXIMUM OUTPUT LEVEL: +21dBu

SIZE: 16-8 766mm x 725mm x 130mm  
24-8 1036mm x 725mm x 130mm (expanded)

WEIGHT 16-8 Console 24 kg  
MPS9 power supply 3 kg  
Packed with MPS9 31 kg



CHANNEL (168 console and EX8 extender):

Microphone in - electronically balanced XLR  
pin 2 = +

Line in - unbalanced 1/4" jack

Tape in and channel out - unbalanced 1/4" jack  
Set for -10dBV operating level

Insert - 1/4" jack, tip = send, ring = return

+48V phantom power switch

CHANNEL PATH: Mic/line source switch

gain pot - wide ranging

Mic = +10 to +68 dB  
Line = -10 to +20 dB

Aux 1 to 4 send pots (post-fader)

Chan cue send pot (pre-fader)

HF +/- pot 14dB 16kHz shelf  
10dB at 10kHz

MF +/- pot 14dB  
MF sweep pot 300Hz to 12kHz

LF +/- pot 14dB  
LF sweep pot 15Hz to 600Hz

EQ on switch

Peak LED for Channel path

Pan pot

PFL switch + LED

Mute switch + LED

Direct/group output switch

Routing switches to L-R  
1-2  
3-4  
5-6  
7-8

100mm Fader - 10dB gain available

MONITOR PATH: Tape/line source reverse switch

mon cue send (pre-fader)

HF +/- 14dB 10kHz shelf  
10dB at 8kHz

LF +/- 14dB 100Hz shelf  
10dB at 100Hz

Level pot to L-R

Pan pot

PFL switch + LED

Mute switch + LED

Mon/chan Aux 1/2 select switch

GROUP:

Aux out - unbalanced 1/4" jack

Stereo return - 1/4" jack tip = left/mono  
ring = right  
Group insert - 1/4" jack tip = send  
ring = return

Group bargraph meter - 10 bar rectangular LED

Aux send master pot

Aux master PFL switch + LED

STEREO RETURN: Mono source switch

Gain pot - -4dB to +14dB gain

HF +/- pot 14dB 10kHz shelf  
LF +/- pot 14dB 100Hz shelf

Chan cue send (pre-level)

Routing switches to L-R  
1-2  
3-4  
5-6  
7-8

Pan pot

Level pot to L-R

PFL switch + LED

Mute switch + LED

GROUP SECTION: L-R switch (sub-group)

PFL switch + LED

100mm fader - 10dB gain available

MUTE PROCESSOR:

MIDI in, out and thru sockets - 5pin DIN

2-digit 7-segment display

Shift switch + LED  
Toggle switch + LED  
record switch + LED  
clear switch + LED

Update switch

Up switch

Down switch

Recall switch

MASTER:

Control room main output L&R - unbalanced 1/4" jack

Control room alt output - 1/4" jack tip = L  
ring = R

2-track tape in (x2) - 1/4" jack tip = L  
ring = R

2-track tape out (x2) - 1/4" jack tip = L  
ring = R

L&R inserts - 1/4" jack tip = send  
ring = return

Stereo cue out - 1/4" jack tip = L  
ring = R

Chan cue out - unbalanced 1/4" jack

Mon cue out - unbalanced 1/4" jack

DC input - 5pin XLR - connect to MPS9 power supply

Oscillator: 10kHz/1kHz switch

Level pot

Osc to groups switch

Cue master pot - controls both chan and mon cue

STEREO CUE: Source switches - mon cue  
chan cue  
L-R  
monitor source  
(tape 1/2, L-R)

Level pot

PFL switch + LED

2-TRACK: Tape 1 source switch - L-R or tape 2  
Tape 2 source switch - L-R or tape 1

CONTROL ROOM: Source switches - all up = L-R  
Tape 1  
Tape 2

PFL active LED

Mono switch

Alt/main speaker select switch

Level pot

Mute switch

TALKBACK: Level pot

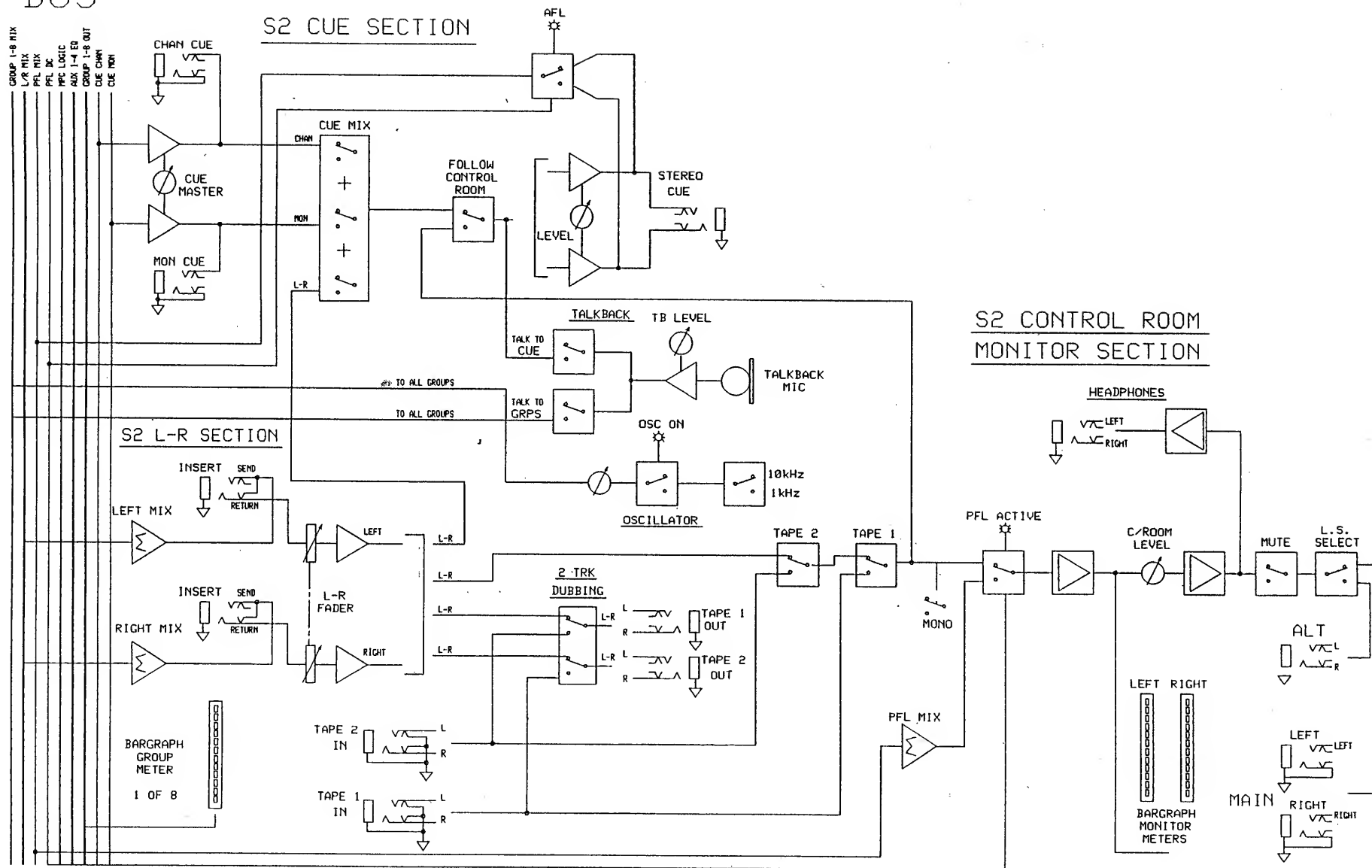
Talk to cue switch (non-latching)  
Talk to groups switch (non-latching)

100mm L-R fader - 10dB gain available

Headphones jack - 1/4" jack tip = L  
ring = R



-BUS-



MANUFACTURED IN ENGLAND BY ALLEN & HEATH  
FOR THATCHED COTTAGE AUDIO

S2 BLOCK DIAGRAM L-R & MASTER

DRAWING No:

D100

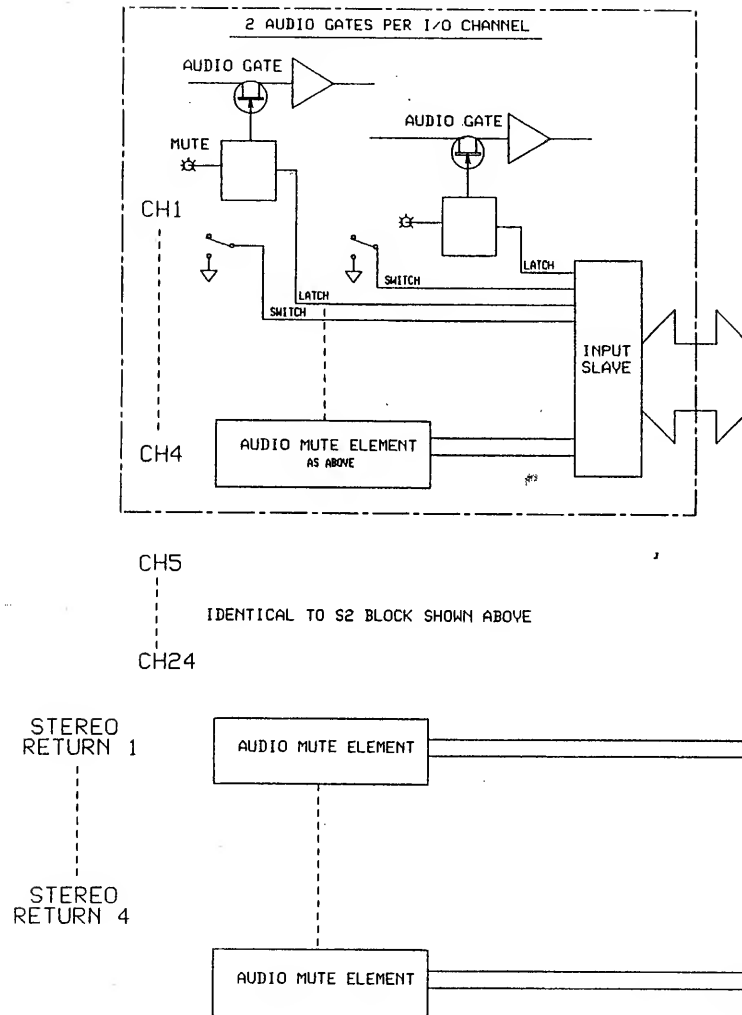
PAGE:

2 OF 3

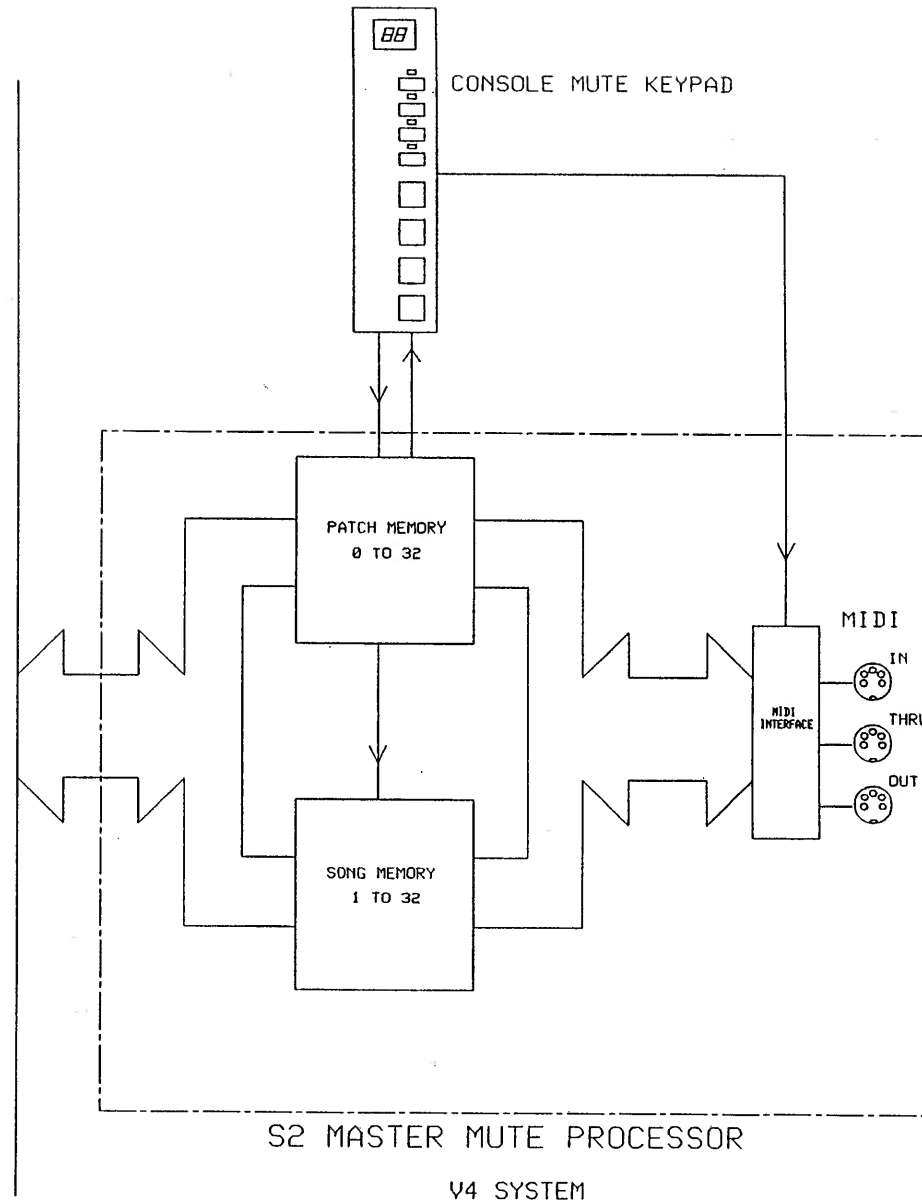
BY: / DATE:

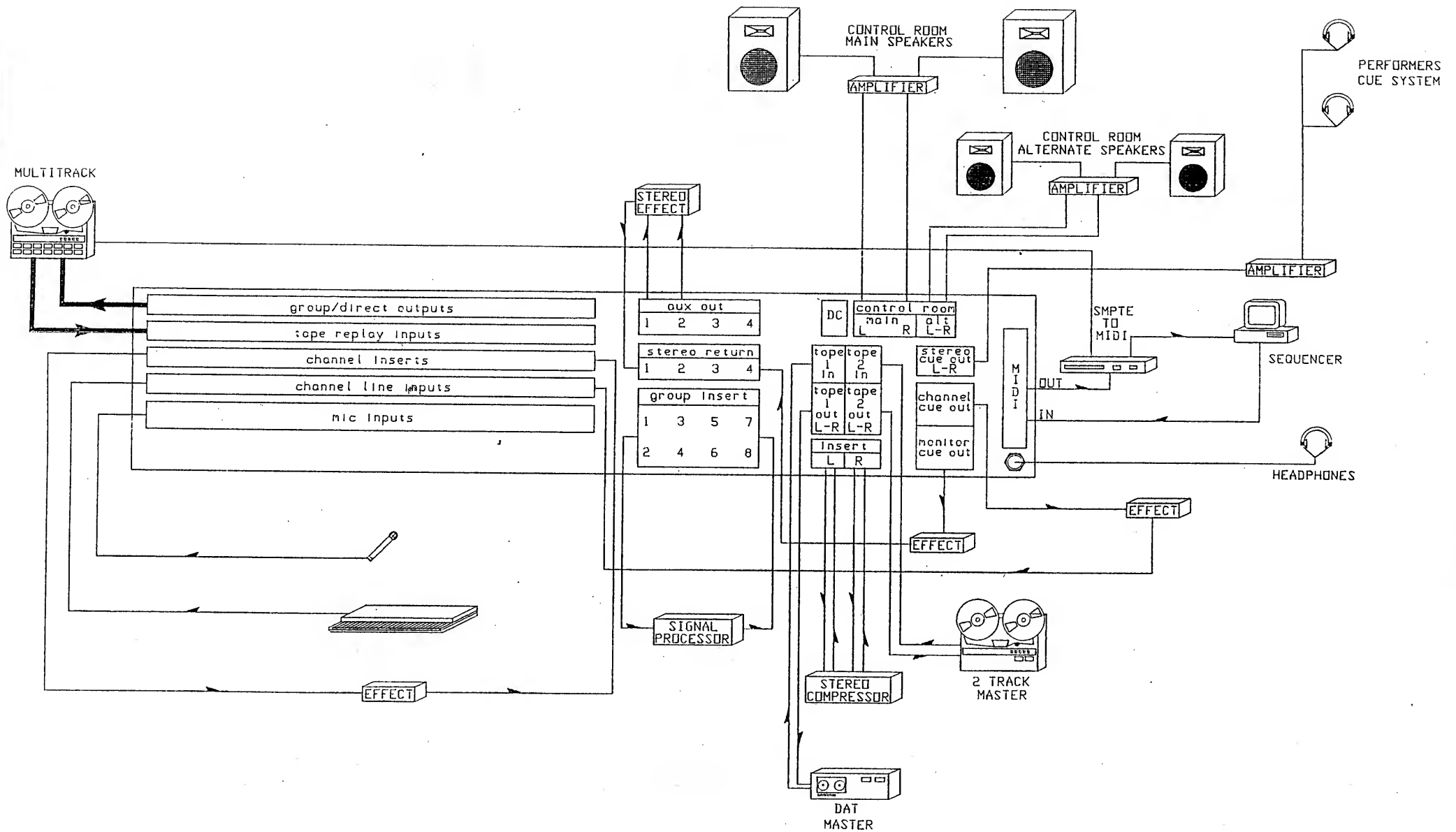
JMcB 19-7-91

## S2 I/O MUTE PROCESSOR



MANUFACTURED IN ENGLAND BY ALLEN & HEATH			
FOR THATCHED COTTAGE AUDIO			
S2 BLOCK DIAGRAM		MUTE AUTOMATION	
DRAWING No:	DATE:	PAGE:	BY:
D100	19-7-91	3 OF 3	Issue 1





ISSUE	REVISION	BY	DATE
1	ORIGIN	IMCB	24-7-91

DRAWING TITLE

S2 AUDIO MULTITRACK SYSTEM  
INSTALLATION

MANUFACTURED IN ENGLAND BY ALLEN & HEATH  
FOR THATCHED COTTAGE AUDIO

DRAWING No. D101 ISSUE 1

grp8/dir out

16

tape in

chan insert

line in

mic

aux out

1 2 3 4

stereo return

1 2 3 4

group insert

1 3 5 7

2 4 6 8

D.C. Input

mono

stereo

left

right

insert

send

ret

XLR pin 2 = +

control room

main

R alt

2 trk tape

In

stereo cue

out

chan

thru

cue out

In

mon

MIDI

+48v

line

mic

gain

rev

line

tape

mon cue

HF 10kHz

LF 100Hz

lev

pan

pfl

mute

mon

chan

aux 1

2

3

4

chan aux

1

2

3

4

chan cue

1

2

3

4

HF 10kHz

LF 100Hz

pan

lev

EQ

1 2 3 4 5 6 7 8

+6 +3 +1 0 -1 -3 -6 -10 -15 -20

group meters

L R

+6 +3 +1 0 -1 -3 -6 -10 -15 -20

monitor

HF 10kHz

LF 100Hz

lev

pan

pfl

mute

mon

chan

aux 1

2

3

4

chan aux

1

2

3

4

chan cue

1

2

3

4

HF 10kHz

LF 100Hz

pan

lev

EQ

aux masters

aux 1 2 3 4

pfl

Stereo Rtn

mono

gain

HF 10kHz

LF 100Hz

chan cue

L-R

1-2

3-4

5-6

7-8

pan

lev

pfl

mute

osc

lev

cue master

mon cue

chan cue

L-R

follow c/room

lev

stereo cue

sfl

2 trk dubbing

1

2

L-R

2 trk tape

pfl active

mono

L.S. select

alt

main

lev

control room

HF 10kHz

LF 100Hz

lev

pan

pfl

mute

mon

chan

aux 1

2

3

4

chan aux

1

2

3

4

chan cue

1

2

3

4

HF 10kHz

LF 100Hz

pan

lev

EQ

aux masters

aux 1 2 3 4

pfl

Stereo Rtn

mono

gain

HF 10kHz

LF 100Hz

chan cue

L-R

1-2

3-4

5-6

7-8

pan

lev

pfl

mute

osc

lev

cue master

mon cue

chan cue

L-R

follow c/room

lev

stereo cue

sfl

2 trk dubbing

1

2

L-R

2 trk tape

pfl active

mono

L.S. select

alt

main

lev

control room

-14 0 +14  
 lev 3 4 5 6 7 8 9 10  
 pan 1 2 3 4 5 6 7 8 9 10  
 ● pfl  
 ● mute  
 aux 1 2 3 4 5 6 7 8 9 10  
 chan aux 1 2 3 4 5 6 7 8 9 10  
 chan cue 1 2 3 4 5 6 7 8 9 10  
 HF 10kHz  
 LF 100Hz  
 MF 300Hz 12kHz  
 LF 15Hz 600Hz  
 EQ  
 pan 1 2 3 4 5 6 7 8 9 10  
 ● pfl  
 ● mute  
 16  
 dir 3rp 8  
 L-R +10  
 1-2 5  
 3-4 0  
 5-6 5  
 7-8 5  
 -10  
 20  
 30  
 40  
 ∞

Stereo Rtn	Stereo Rtn	Stereo Rtn	Stereo Rtn
mono	mono	mono	mono
gain 1 2 3 4 5 6 7 8 9 10	gain 1 2 3 4 5 6 7 8 9 10	gain 1 2 3 4 5 6 7 8 9 10	gain 1 2 3 4 5 6 7 8 9 10
HF 10kHz	HF 10kHz	HF 10kHz	HF 10kHz
LF 100Hz	LF 100Hz	LF 100Hz	LF 100Hz
chan cue 1 2 3 4 5 6 7 8 9 10	chan cue 1 2 3 4 5 6 7 8 9 10	chan cue 1 2 3 4 5 6 7 8 9 10	chan cue 1 2 3 4 5 6 7 8 9 10
L-R	L-R	L-R	L-R
1-2	1-2	1-2	1-2
3-4	3-4	3-4	3-4
5-6	5-6	5-6	5-6
7-8	7-8	7-8	7-8
pan 1 2 3 4 5 6 7 8 9 10	pan 1 2 3 4 5 6 7 8 9 10	pan 1 2 3 4 5 6 7 8 9 10	pan 1 2 3 4 5 6 7 8 9 10
lev 1 2 3 4 5 6 7 8 9 10	lev 1 2 3 4 5 6 7 8 9 10	lev 1 2 3 4 5 6 7 8 9 10	lev 1 2 3 4 5 6 7 8 9 10
● pfl 1	● pfl 2	● pfl 3	● pfl 4
● mute 1	● mute 2	● mute 3	● mute 4

group outputs

1	2	3	4	5	6	7	8
L-R	L-R	L-R	L-R	L-R	L-R	L-R	L-R
● pfl	● pfl	● pfl	● pfl	● pfl	● pfl	● pfl	● pfl
1	2	3	4	5	6	7	8
+10	+10	+10	+10	+10	+10	+10	+10
5	5	5	5	5	5	5	5
5	5	5	5	5	5	5	5
-10	-10	-10	-10	-10	-10	-10	-10
20	20	20	20	20	20	20	20
30	30	30	30	30	30	30	30
40	40	40	40	40	40	40	40
∞	∞	∞	∞	∞	∞	∞	∞

osc to groups  
 cue master 1 2 3 4 5 6 7 8 9 10  
 mon cue  
 + chan cue  
 + L-R  
 follow c/room  
 lev 1 2 3 4 5 6 7 8 9 10  
 stereo cue  
 ● afl  
 2 trk dubbing  
 1 tape 2 > tape 1  
 L-R  
 2 tape 1 > tape 2  
 L-R  
 1 2 trk tape  
 L-R  
 ● pfl active  
 mono  
 L.S. select alt main  
 lev 1 2 3 4 5 6 7 8 9 10  
 control room  
 L.S. mute  
 lev 1 2 3 4 5 6 7 8 9 10  
 talk to cue  
 grps  
 talkback  
 +10  
 L-R  
 5  
 -10  
 20  
 30  
 40  
 ∞  
 headphones

POWER SUPPLY

MPS9
ZS700-711 (240V)
ZS700-712 (110V)

16:8 CHASSIS	ZX000-009	1
--------------	-----------	---

BASE	AA1122 D091/2	AA1123 D103/1
EXTRUSION	AA1120 D085/3	AA1121 D085/3
SIDE TRIM	AA1126L+R D092/2	

4-JACK PCB  
ZX000-007  
AG0307/2  
FV029/2  
CCT D090/1

METER PCB  
ZX000-004  
AG0304/1  
FV026/1  
CCT D087/1

METER HARNESS  
ZX000-016  
D097/2

EX8 CHASSIS	ZX000-011	1
-------------	-----------	---

# HARNESS ASSEMBLIES.

MAIN	SLAVE
ZX000-012 D095/2	ZX000-013 D096/2

16:8

16:8 PANEL ASSY  
ZX000-008  
1

16:8 F/PANEL  
AA1124  
D086/3  
EV009A+B/2

16:8 PANEL COMPLETE  
ZX000-601

S2 MIXING CONSOLE  
(CHANNELS 1 TO 16)

EX8 PANEL COMPLETE  
ZX000-602  
EXTENDER  
(CH 17 TO 24)

EX8 F/PANEL  
AA1125  
D102/1  
EV011/1

EX8 PANEL ASSY  
ZX000-010

# HARNESS ASSEMBLIES.

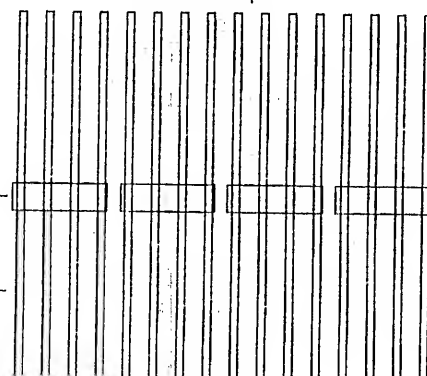
MAIN	SLAVE
ZX000-014 D104/1	ZX000-015 D105/1

EX8

SLAVE PCB  
ZX000-006  
AG0306/2  
FV028/2  
CCT D089/1

ID PCB  
ZX000-001  
AG0301/2  
FV023/2  
CCT D082/2

16



GROUP PCB  
ZX000-002  
AG0302/2  
FV024/2  
CCT D083/1

4

MASTER PCB  
ZX000-003  
AG0303/2  
FV025/2  
CCT D084/1

1

MICRO PCB  
ZX000-005  
AG0305/2  
FV027/2  
CCT D088/1

1

SLAVE PCB  
ZX000-006  
AG0306/2  
FV028/2  
CCT D089/1

2

ID PCB  
ZX000-001  
AG0301/2  
FV023/2  
CCT D082/2

8

THE EX8 EXTENDER UNIT MAY BE RETRO-FITTED TO THE S2 TO CONVERT IT TO 24 CHANNELS.

ISSUE	REVISION	BY	DATE
A	ORIGIN		CD 11-5-91
3	PRODUCTION		14-8-29-8-91

## FORMATTED ASSEMBLIES

16-8	ZZ-S2-001
EX8	ZZ-S2-002

110V 240V  
/1 /2

PRODUCT NAME = S2

PRODUCT GROUP = 57

COMPLETE ASSEMBLIES = ZX000-601 ETC

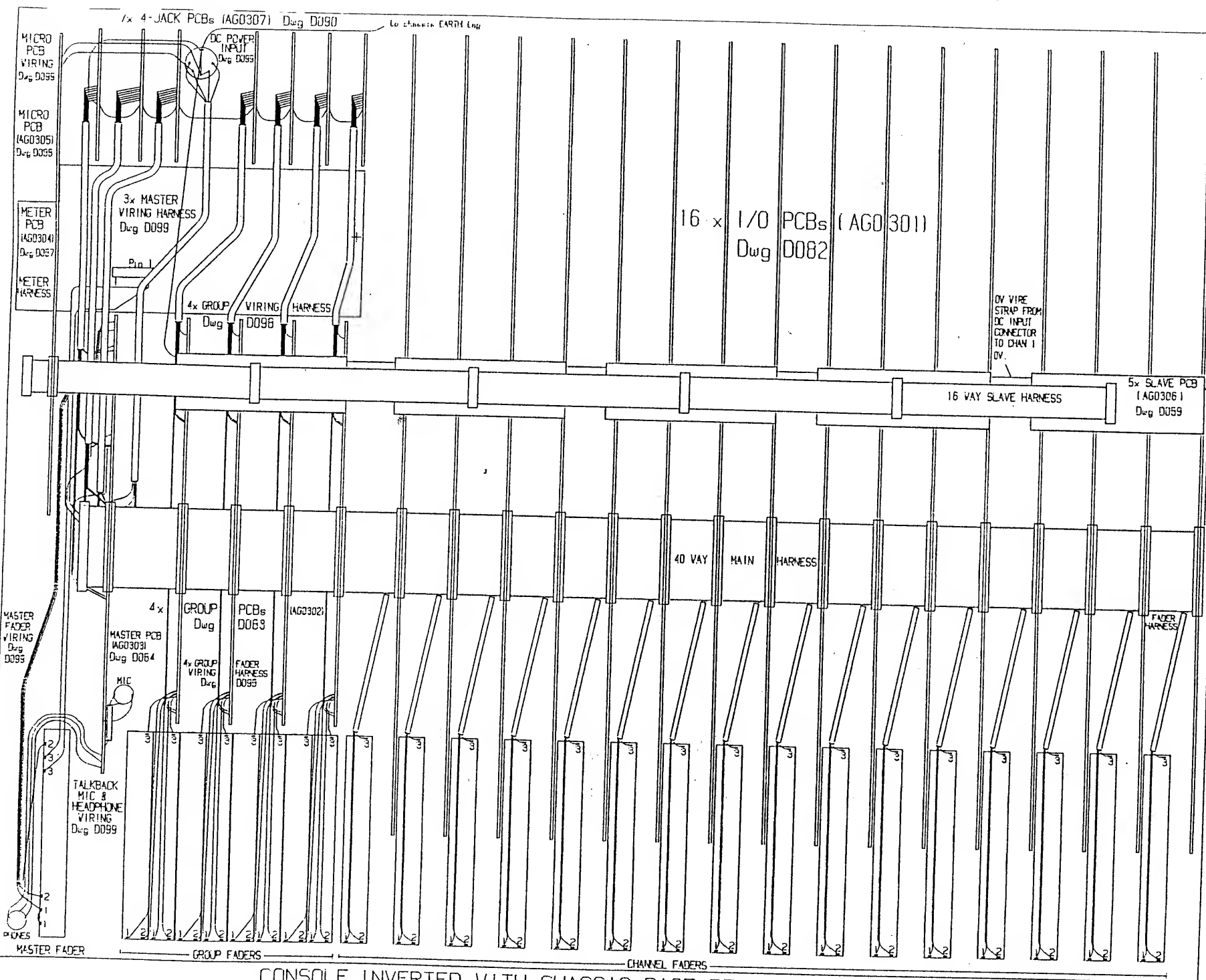
SUB ASSEMBLIES = ZX000-001 ETC

## DRAWING TITLE

S2 PARTS STRUCTURE

MANUFACTURED IN ENGLAND BY ALLEN & HEATH  
FOR THATCHED COTTAGE AUDIO

DRAWING No. D093 ISSUE 3



S2 INTERNAL LAYOUT	
Dwg.	D106 Issue 1
By:	IMcB 10-9-91

## S2 SERVICE ACCESS

Normal operation of the S2 mixing console does not require internal access for option setting or adjustment. Internal assignments and adjustments are preset by the factory or carried out by an appointed service agent.

**ALL SERVICE WORK THAT REQUIRES REMOVAL OF THE BASE SHOULD BE REFERRED TO QUALIFIED SERVICE PERSONNEL ONLY.**

### **PROCEDURE:**

1. Disconnect the power supply and all leads from the console.
2. Place the console upside down on a suitable flat surface. Prevent damage to the knobs and control panel.
3. Remove the front and rear base screws and lift off the base. It may be necessary to loosen the M6 side trim screws slightly first.
4. It should not normally be necessary to remove the side trim or front/rear extrusions fully. Access to all circuit assemblies is possible with these items in place.
5. Carry out the work required.
6. Check accuracy of work and connector alignment before replacing the base. Remove all solder debris etc. Ensure correct seating of the circuit assemblies and wiring harnesses.
7. Refit the base and tighten the side trim screws.
8. Reconnect the power and leads and test for correct operation.



## S2 HIGH LEVEL MULTITRACK OPTION

The S2 is factory preset for operation with low level ( -10dBV ) multitrack tape machines.

It may be internally reconfigured for operation with high level ( +4dBu ) multitrack tape machines.

Two link changes on each of the channel (IO) pcbs is required. This sets the GRP/DIR OUT and MONITOR PFL sensitivity for high level.

This option is shown in BLOCK DIAGRAM D100 page 1.

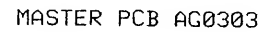
The circuit details and link positions are shown in IO CIRCUIT DIAGRAM D082 and PCB LAYOUT FW023D.

### **PROCEDURE:**

1. Place mixer upside down on flat surface.
2. Remove front and rear screws and remove base.
3. Unplug main 40way IDC harness and identify option links J3 and J4.
4. Desolder and remove PFL link J3.
5. Resolder OUTPUT link J4 to HI position.
6. Plug on harness and refit base.
7. Test for correct operation.

### **NOTES:**

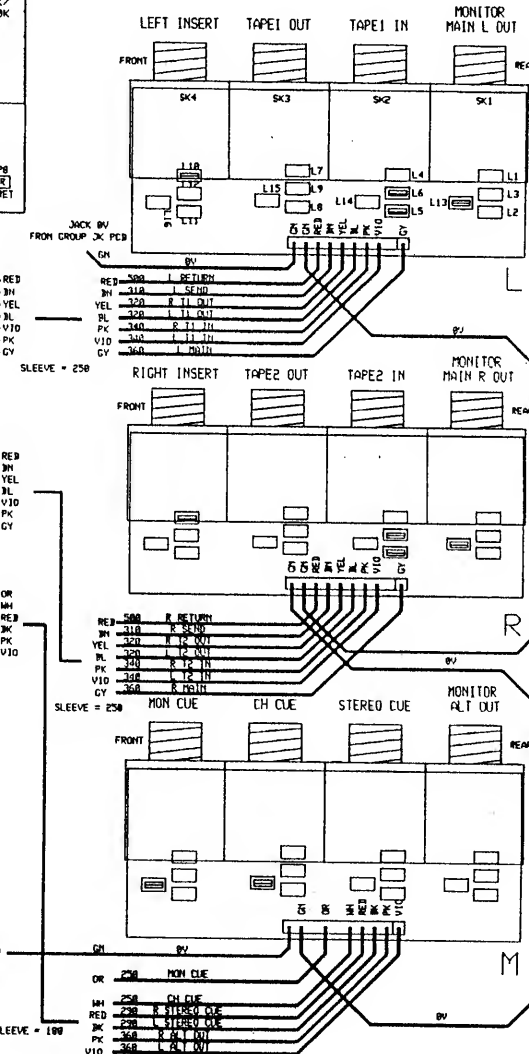
1. Different settings of the CHANNEL GAIN and MONITOR LEVEL controls are required. Adjust for correct level using PFL.
2. This option affects only the multitrack tape level. The 2-track tape connection is set for low level (-10dBV) and may not be changed. Most 2-track machines have sensitivity controls to allow operation with low level equipment.
3. Carry out change to EX8 expander channels if required ie. for 24 track multitrack machines.
4. **THIS WORK SHOULD ONLY BE CARRIED OUT BY QUALIFIED SERVICE PERSONNEL.**



MICRO PCB AG0305

PCB COMPONENT VIEWS

4JACK PCBS AG0307



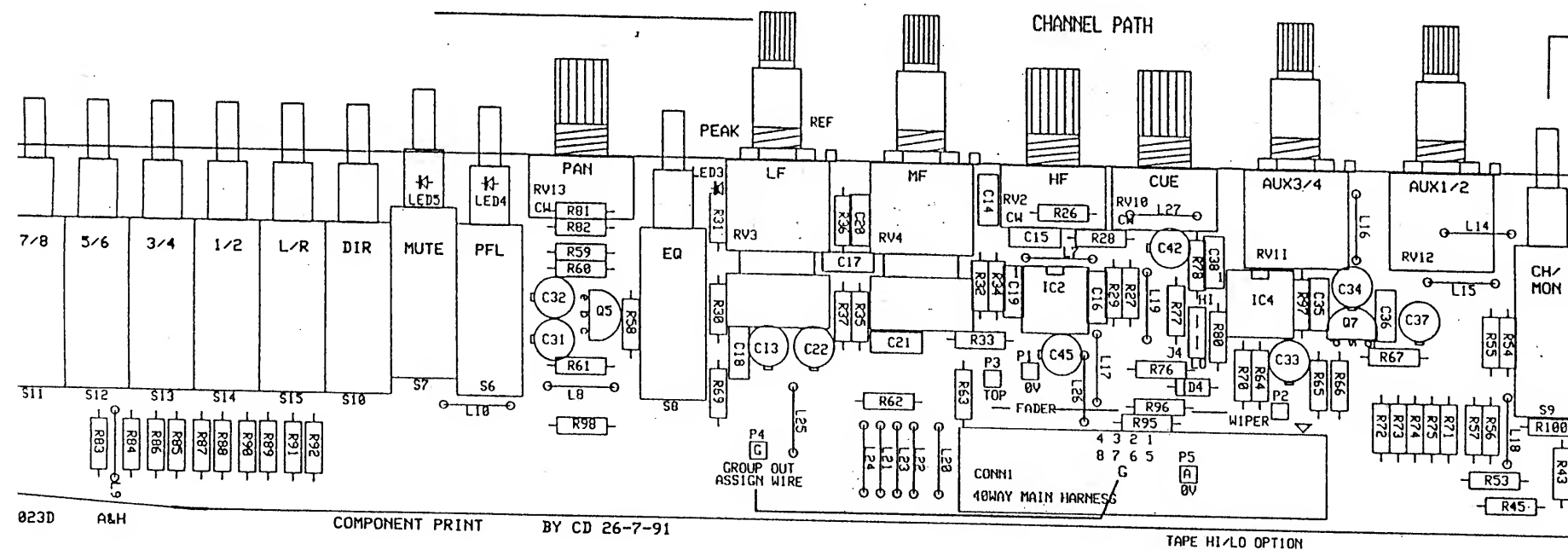
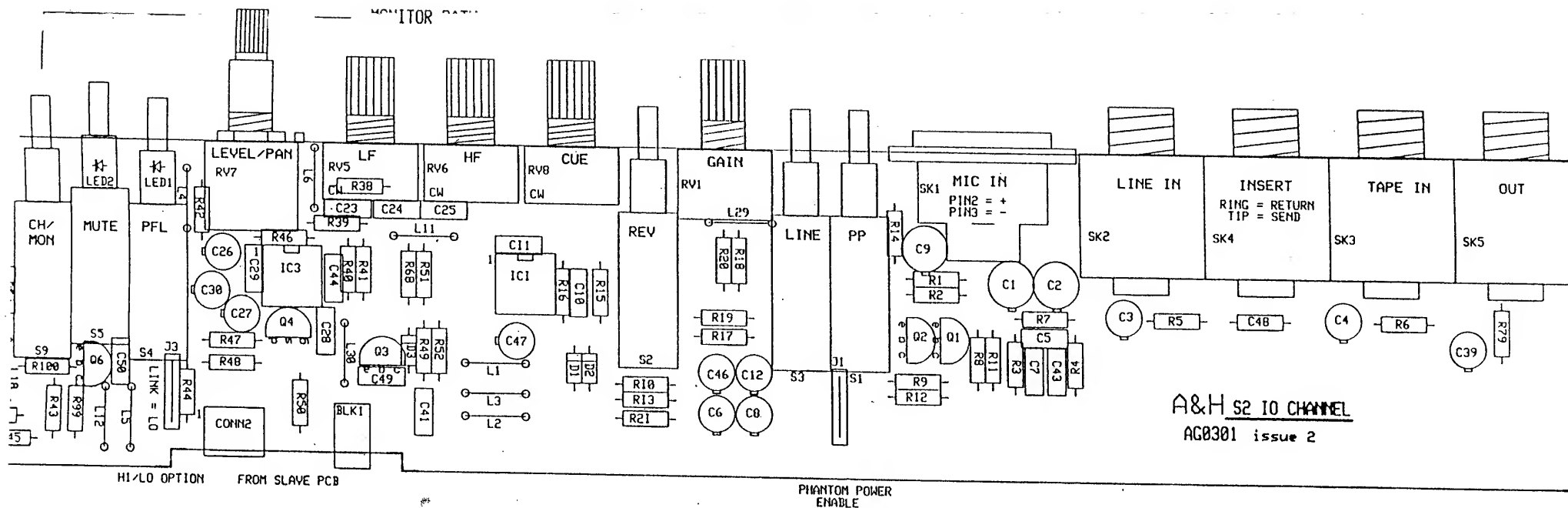
SLEEVE - 180

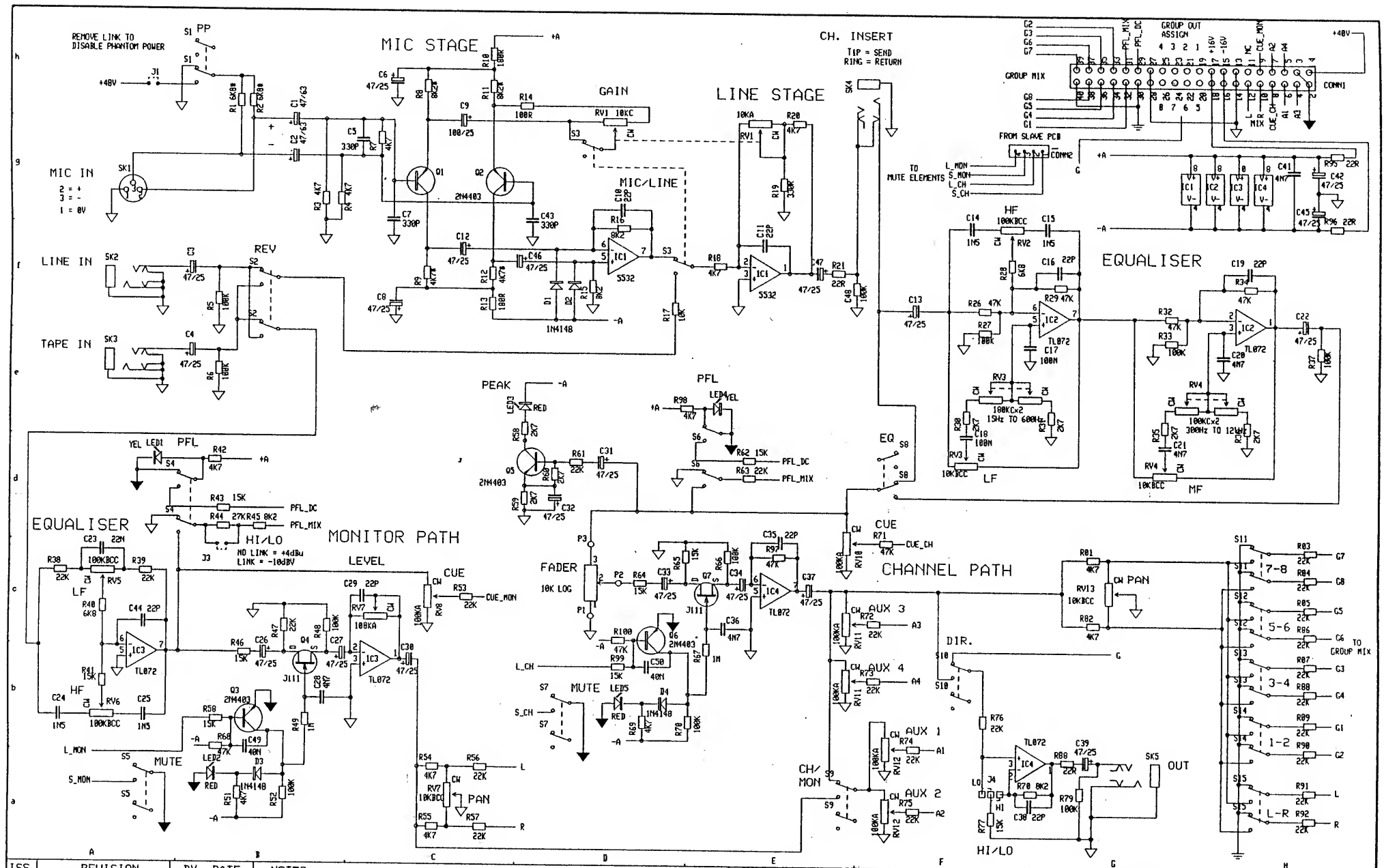
Diagram illustrating the layout of a 24-channel audio mixing console, showing various input and output sections, including faders, return switches, and assignment buttons.

**Legend:**

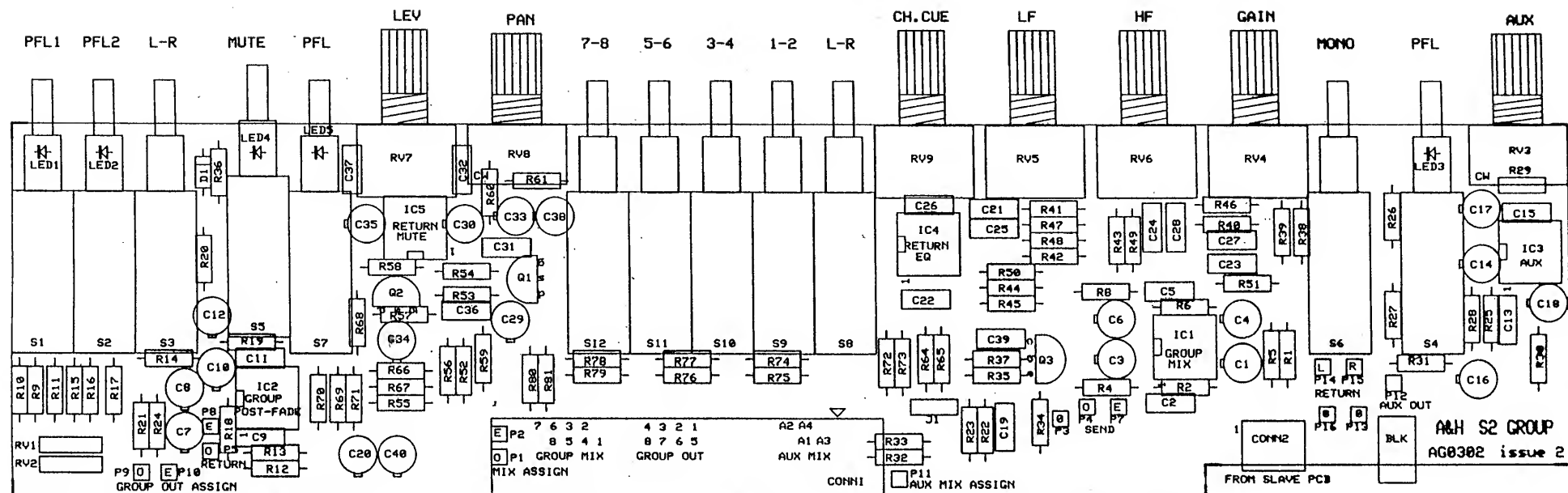
- CH = Channel
- VIO = Voice Input Output
- PW = Power
- FADER

DRAWING No. D098 issue 2 BY CD 30-8-91





ISS.	REVISION	BY	DATE	NOTES	UNIT TITLE	MANUFACTURED IN ENGLAND BY ALLEN & HEATH
1	ORIGIN	CD	26-3-91	1. RESISTORS MARKED * ARE 1% ALL OTHERS ARE 5% 1/4W UNLESS OTHERWISE MARKED	S2	FOR THATCHED COTTAGE AUDIO
2	PRODUCTION (REVISED PRE-APP)	CD	8-7-91	2. ELECTROLYTIC CAPACITORS ARE µF/VOLTS	IO CIRCUIT DIAGRAM PCB TYPE AG0301	DRAWING No. D082 ISSUE 2



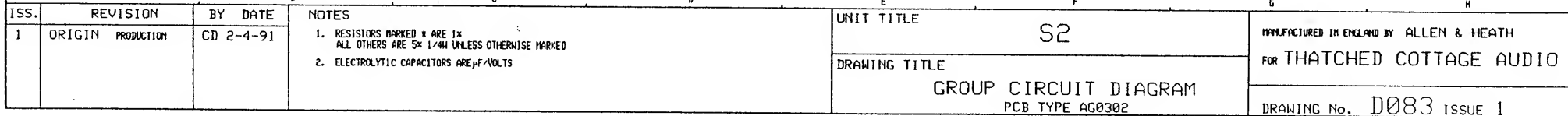
FW024D

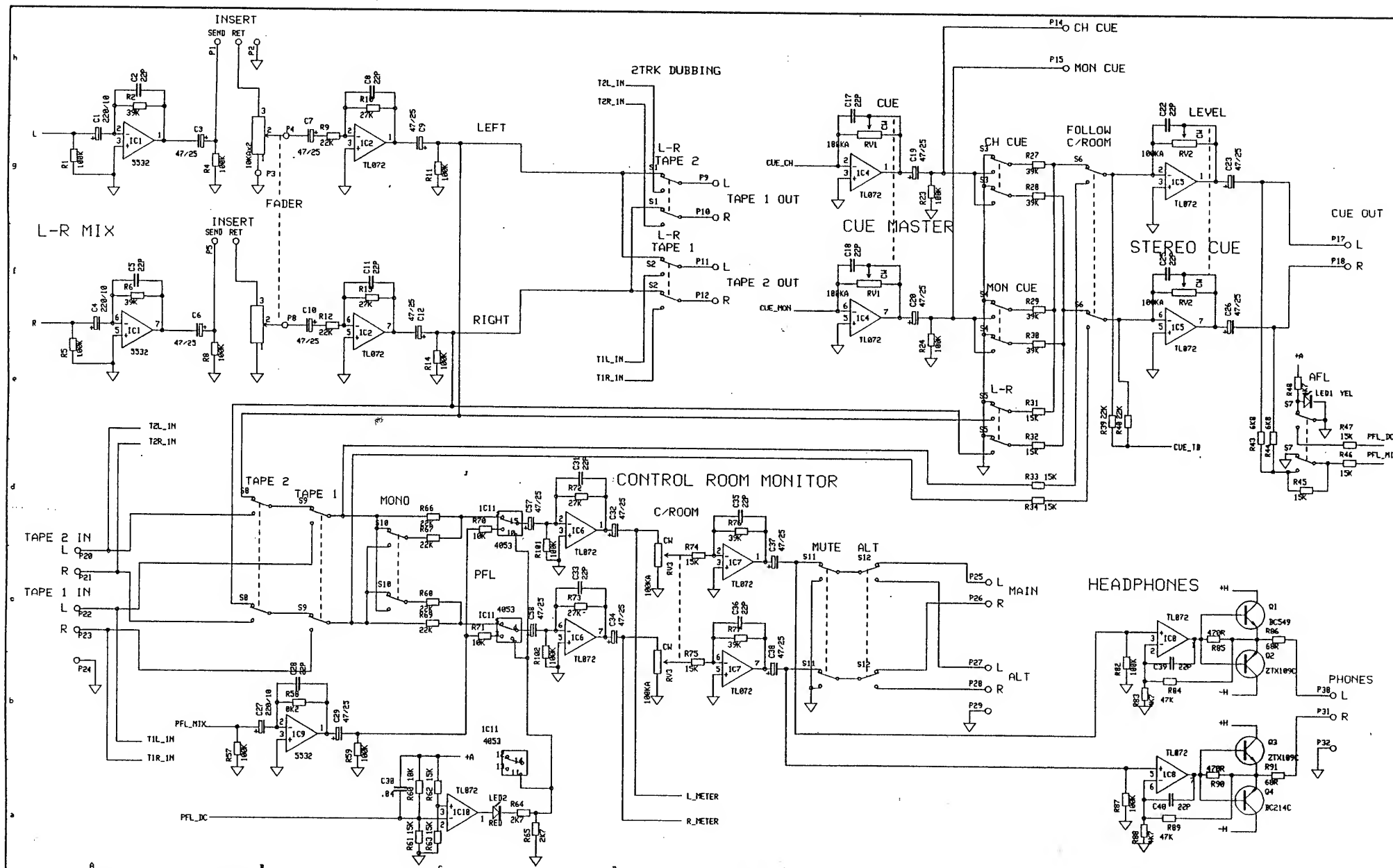
COMPONENT PRINT

BY CD 4-8-91

A&H

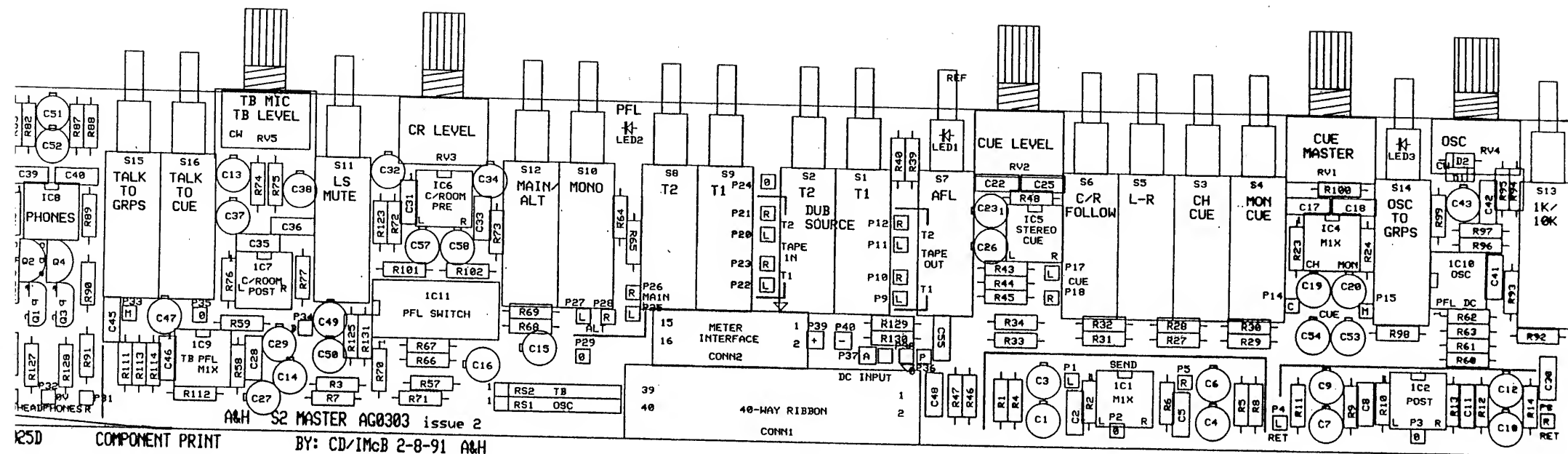
A&H S2 GROUP  
AG0302 issue 2





ISS.	REVISION	BY DATE	NOTES	UNIT TITLE	MANUFACTURED IN ENGLAND BY ALLEN & HEATH
1	ORIGIN PRODUCTION	CD 4-4-91	1. RESISTORS MARKED * ARE 1% ALL OTHERS ARE 5% 1/4W UNLESS OTHERWISE MARKED 2. ELECTROLYTIC CAPACITORS ARE µF/VOLTS	S2	FOR THATCHED COTTAGE AUDIO
				DRAWING TITLE	DRAWING No.
				SHEET 1 OF 2 MASTER CIRCUIT DIAGRAM PCB TYPE AG0303	D084 ISSUE 1



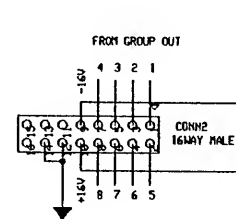


A&H S2 MASTER AG0303 issue 2

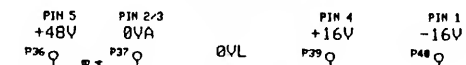
BY: CD/IMCB 2-8-91 A&H

R25D COMPONENT PRINT

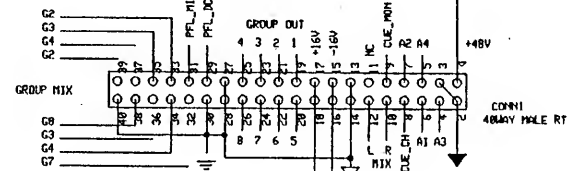
## METER INTERFACE



DC POWER INPUT  
FROM 5-PIN XLR

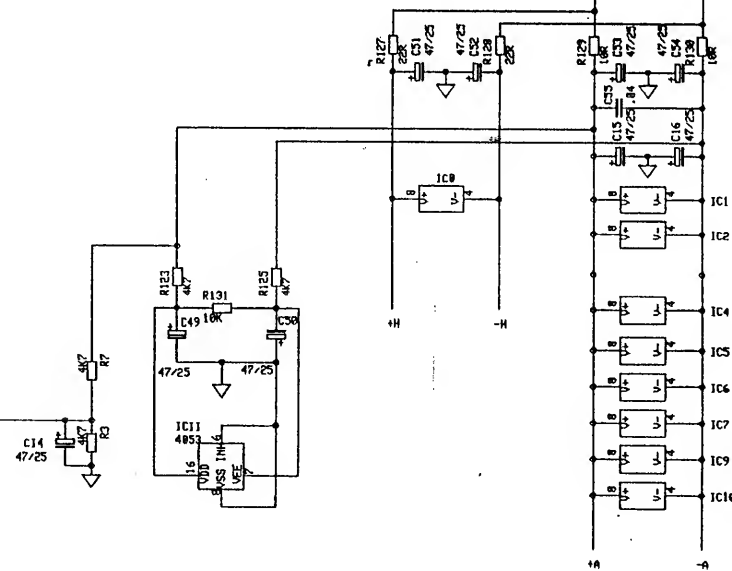
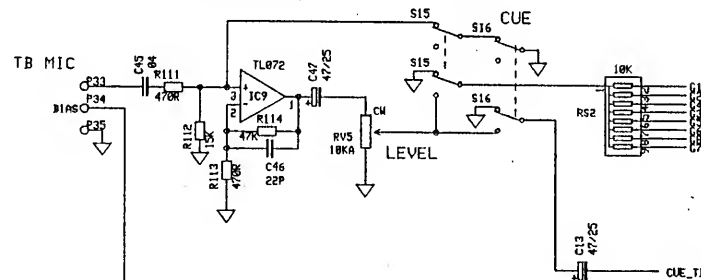


## 40-WAY RIBBON



## TALKBACK

TB TO GRPS



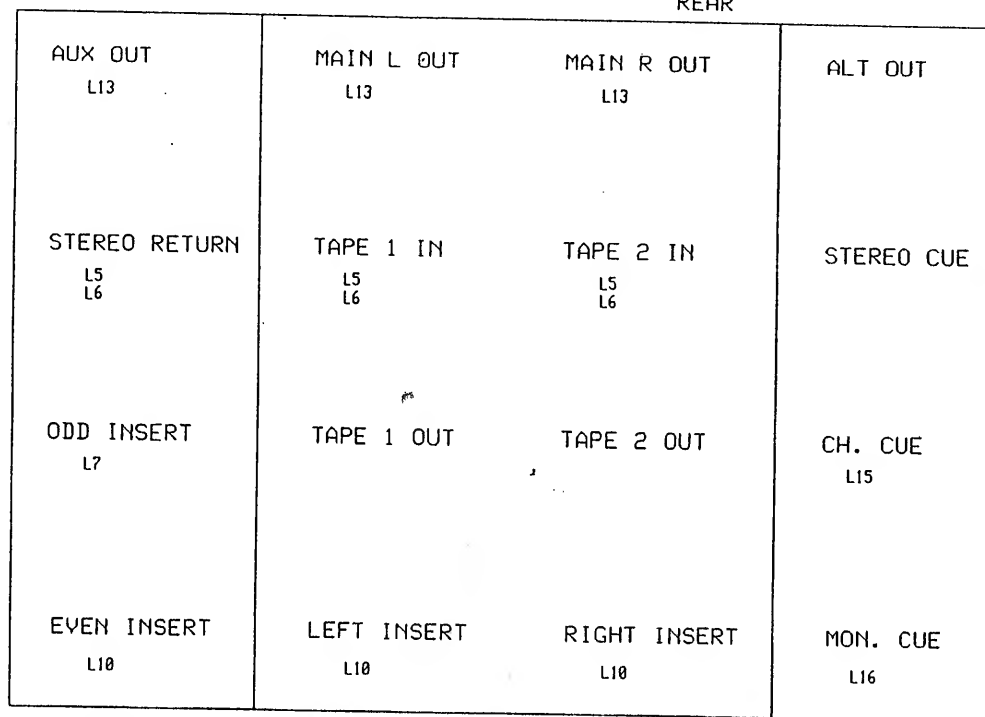
ISS.		REVISION		BY DATE		NOTES		UNIT TITLE		DRAWING TITLE	
1		ORIGIN PRODUCTION		CD 4-4-91		1. RESISTORS MARKED $\mu$ ARE 1% ALL OTHERS ARE 5% 1/4W UNLESS OTHERWISE MARKED 2. ELECTROLYTIC CAPACITORS ARE $\mu$ F/VOLTS		S2		"MANUFACTURED IN ENGLAND BY ALLEN & HEATH FOR THATCHED COTTAGE AUDIO	
								SHEET 2 OF 2		DRAWING No. D084 ISSUE 1	
								MASTER CIRCUIT DIAGRAM			
								PCB TYPE AG0303			

G

LR

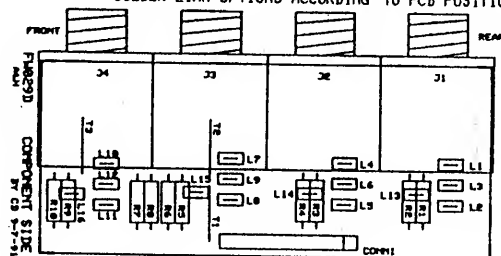
M

REAR

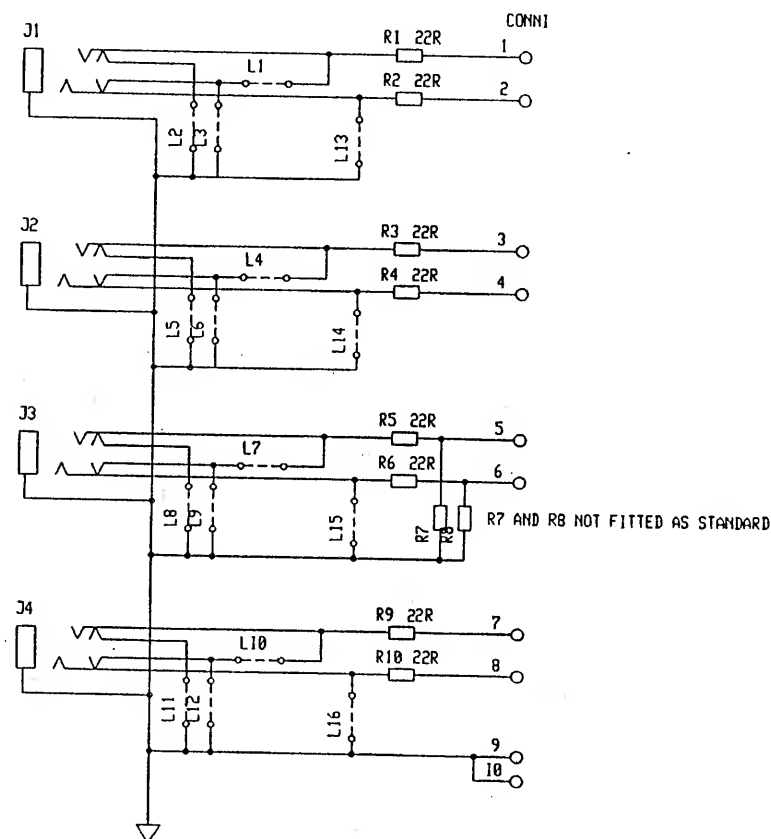


SOLDER LINK OPTIONS ACCORDING TO PCB POSITION

FRONT



A&amp;H S2 4-JACK ACB387 issue 2



REVISION	BY	DATE
ISS.1	ORIGIN	PRODUCTION CD 22-4-91

UNIT TITLE

S2

DRAWING TITLE

4-JACK CIRCUIT DIAGRAM

PCB TYPE ACB387

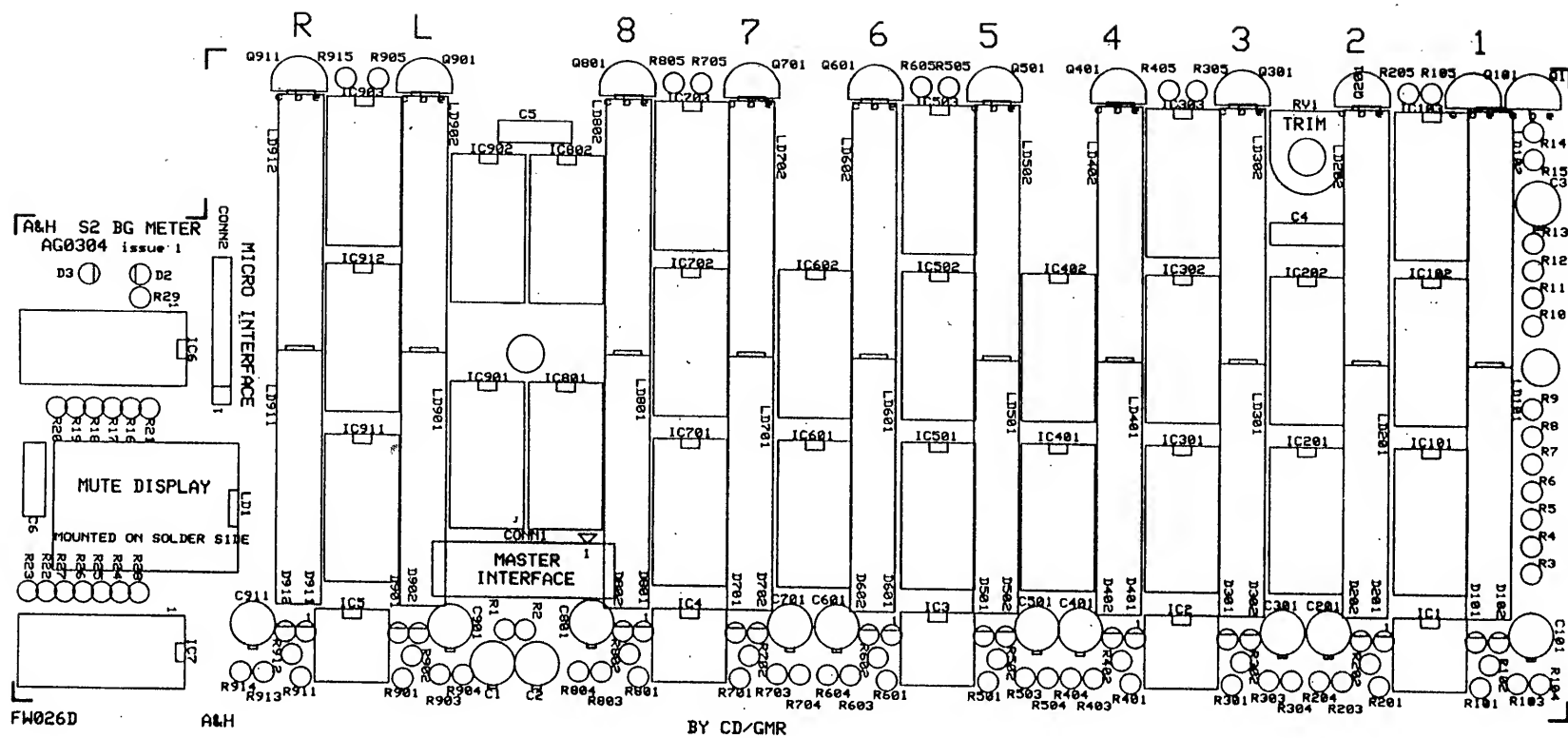
MANUFACTURED IN ENGLAND BY  
ALLEN & HEATH  
FOR

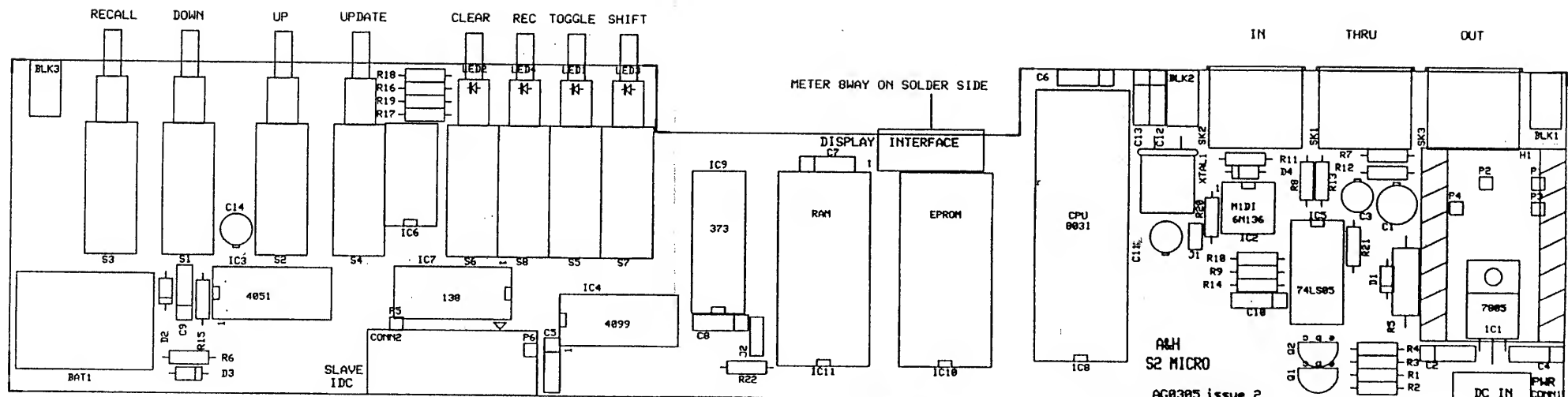
THATCHED COTTAGE AUDIO

DRAWING No.

D090

ISSUE 1





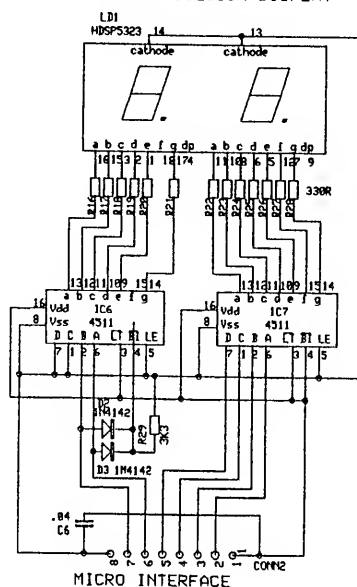
A&H

COMPONENT PRINT

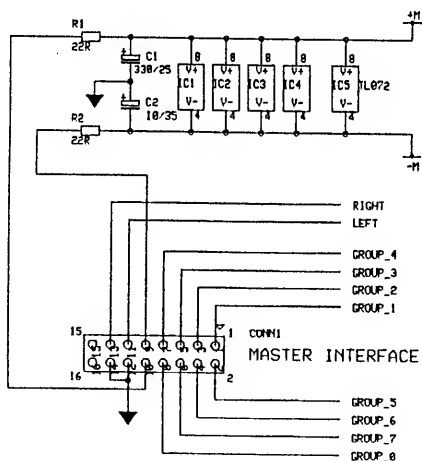
BY CD 38-7-91

FW027D

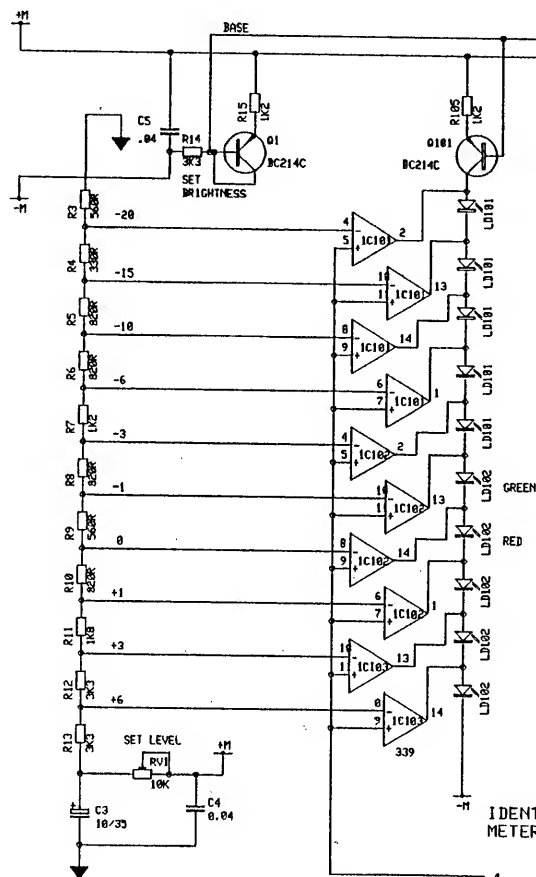
# MUTE PROCESSOR DISPLAY



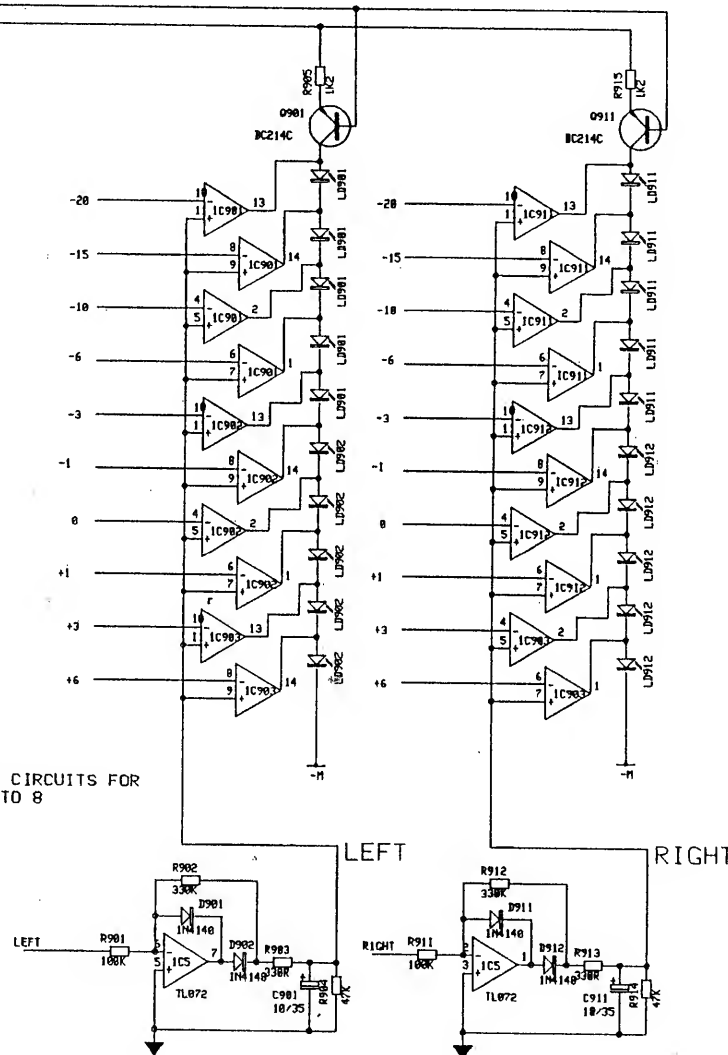
MICRO INTERFACE



RIGHT  
LEFT  
GROUP\_4  
GROUP\_3  
GROUP\_2  
GROUP\_1  
GROUP\_5  
GROUP\_6  
GROUP\_7  
GROUP\_8



IDENTICAL CIRCUITS FOR METERS 2 TO 8

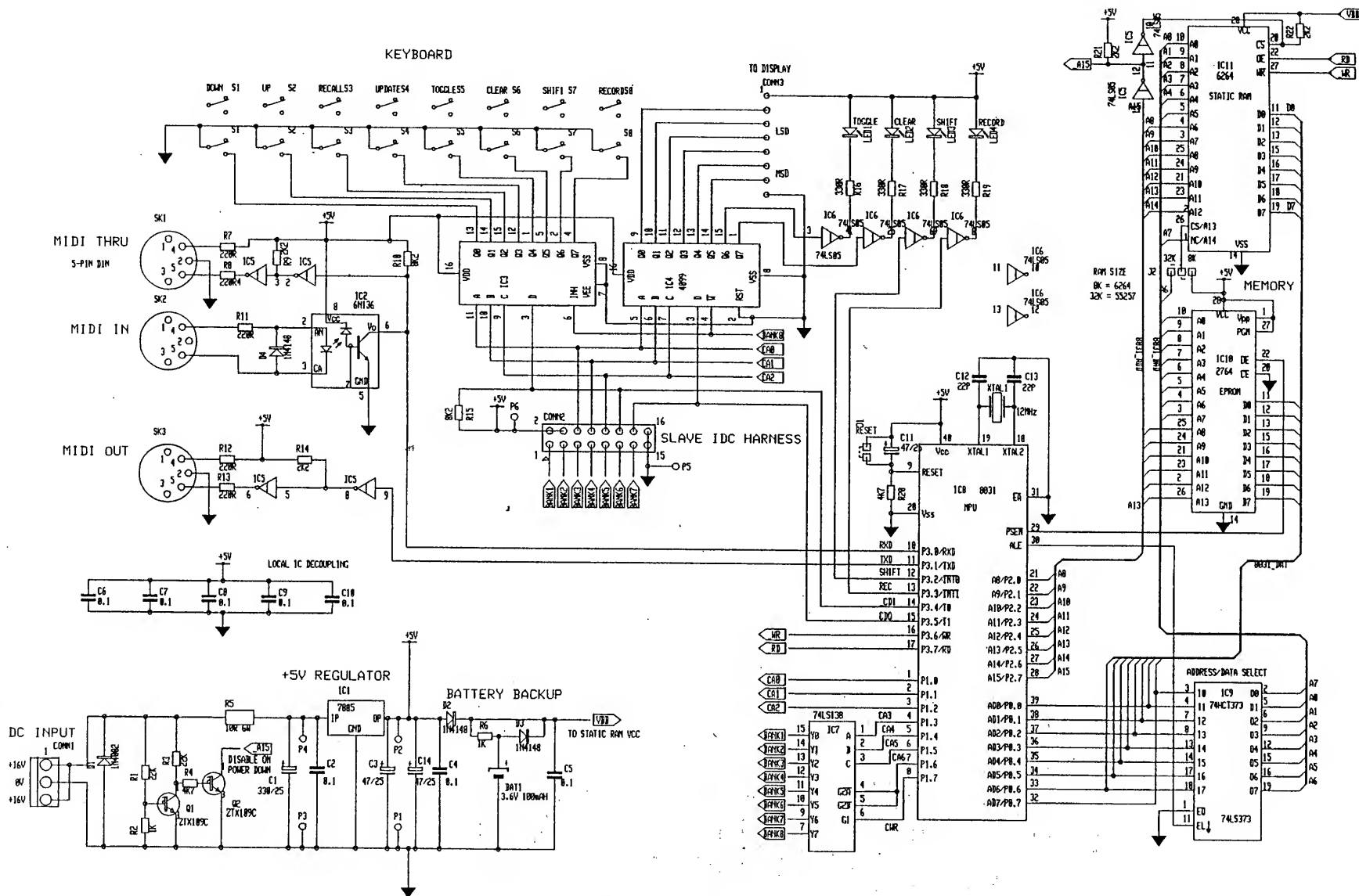


LEFT

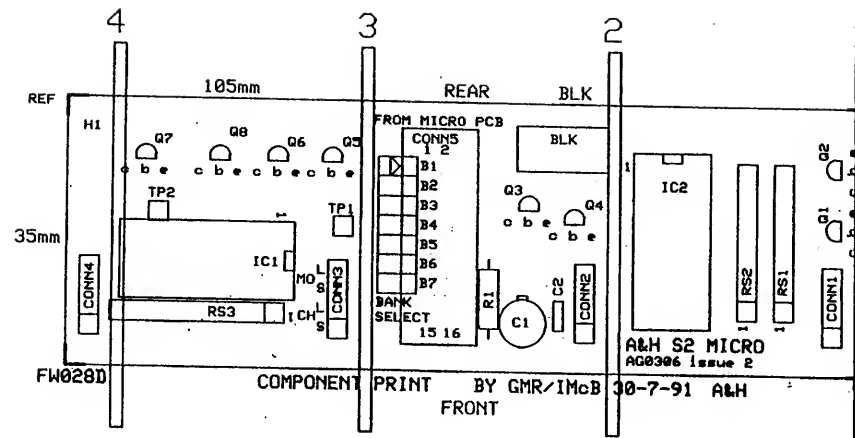
RIGHT

ISS.	REVISION	BY DATE	NOTES	UNIT TITLE	DRAWING TITLE	MANUFACTURED IN ENGLAND BY ALLEN & HEATH
1	ORIGIN PRODUCTION	CD 16-4-91	<p>1. RESISTORS MARKED # ARE 1% ALL OTHERS ARE 5% 1/4W UNLESS OTHERWISE MARKED</p> <p>2. ELECTROLYTIC CAPACITORS ARE µF/VOLTS</p>	S2	BARGRAPH METER CIRCUIT	FOR THATCHED COTTAGE AUDIO
				PCB TYPE AG0304		DRAWING No. D087 ISSUE 1

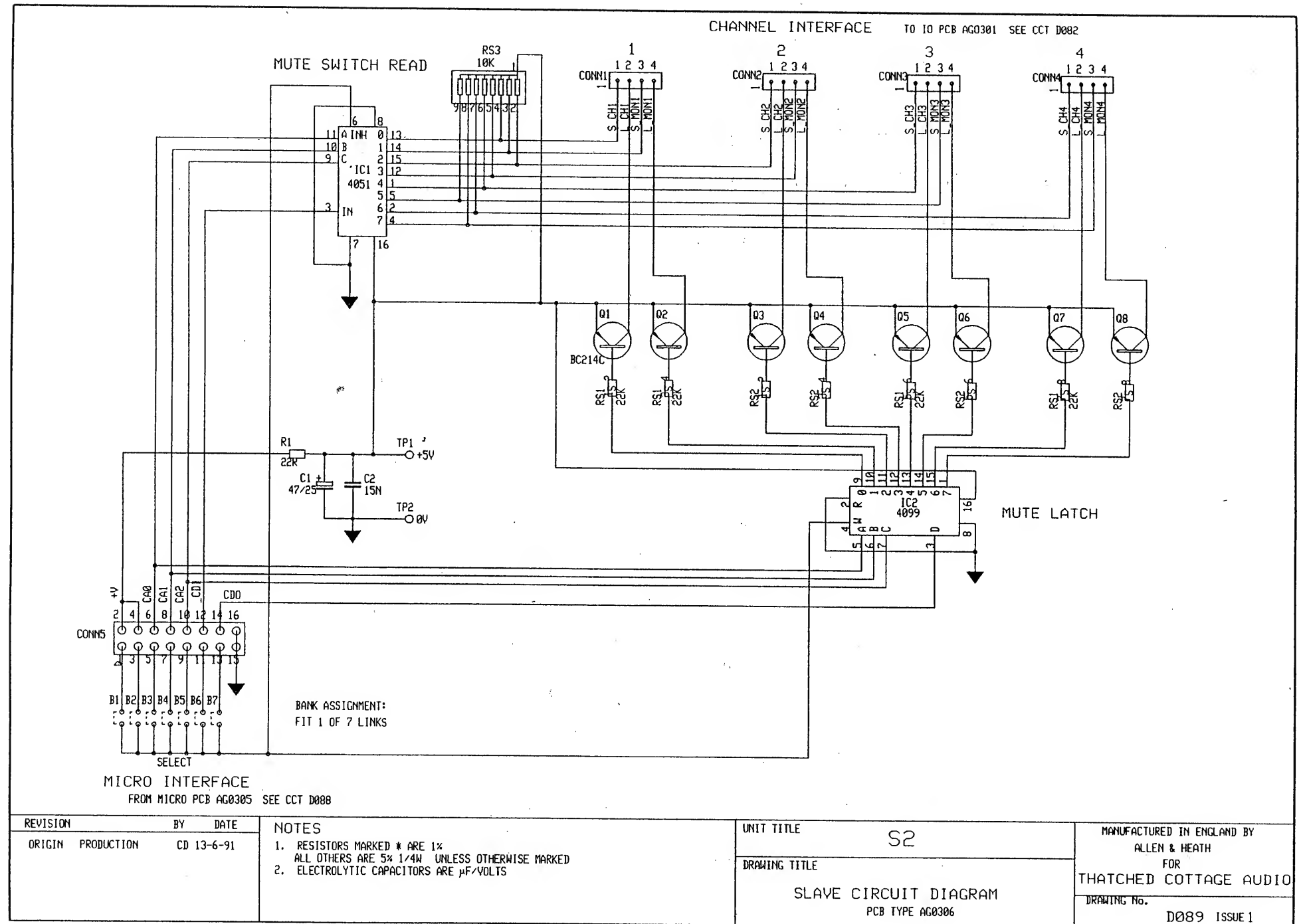
# KEYBOARD



ISS.	REVISION	BY DATE	NOTES	UNIT TITLE	MANUFACTURED IN ENGLAND BY
1	ORIGIN PRODUCTION	CD 29-8-91	<p>1. RESISTORS MARKED # ARE 1% ALL OTHERS ARE 5% 1/4W UNLESS OTHERWISE MARKED</p> <p>2. ELECTROLYTIC CAPACITORS ARE <math>\mu</math>F/VOLTS</p>	<p>S2</p> <p>DRAWING TITLE</p> <p>MICRO CIRCUIT - MUTE PROCESSOR PCB TYPE AG0305</p>	<p>ALLEN &amp; HEATH</p> <p>FOR THATCHED COTTAGE AUDIO</p>
				DRAWING No. D088 ISSUE 1	







REVISION ORIGIN    PRODUCTION	BY    DATE CD 13-6-91	UNIT TITLE S2	MANUFACTURED IN ENGLAND BY ALLEN & HEATH
	NOTES 1. RESISTORS MARKED * ARE 1% ALL OTHERS ARE 5% 1/4W UNLESS OTHERWISE MARKED 2. ELECTROLYTIC CAPACITORS ARE µF/VOLTS	DRAWING TITLE SLAVE CIRCUIT DIAGRAM PCB TYPE AG0306	FOR THATCHED COTTAGE AUDIO
			DRAWING No. D089 ISSUE 1

# NOTES FOR THE CONSOLE CHANNEL TO MIDI NOTE NUMBER TRANSLATION TABLE (see overleaf)

## KEY

A	-STEINBERG PRO 24
B	-AKAI, YAMAHA, KORG, CUBASE, C-LAB EQUIPMENT
C	-ROLAND EQUIPMENT
I/P	-CONSOLE INPUT
MON	-CONSOLE MONITOR
SR	-STEREO RETURN
RET	-EFFECTS RETURN
AUX	-AUX SEND

## NOTES

- CONTROLLER CODE CHANNEL NUMBERS REMAIN THE SAME
- SABER PA CONSOLES, Monitor column 1-8 denotes, PA GROUP (1-8), 9-16, denotes MATRIX (1-8). IGNORE Monitor column 17-24.

THE S2 MIXING CONSOLE

NOTES AND UPDATES

DATE      BY      DESCRIPTION